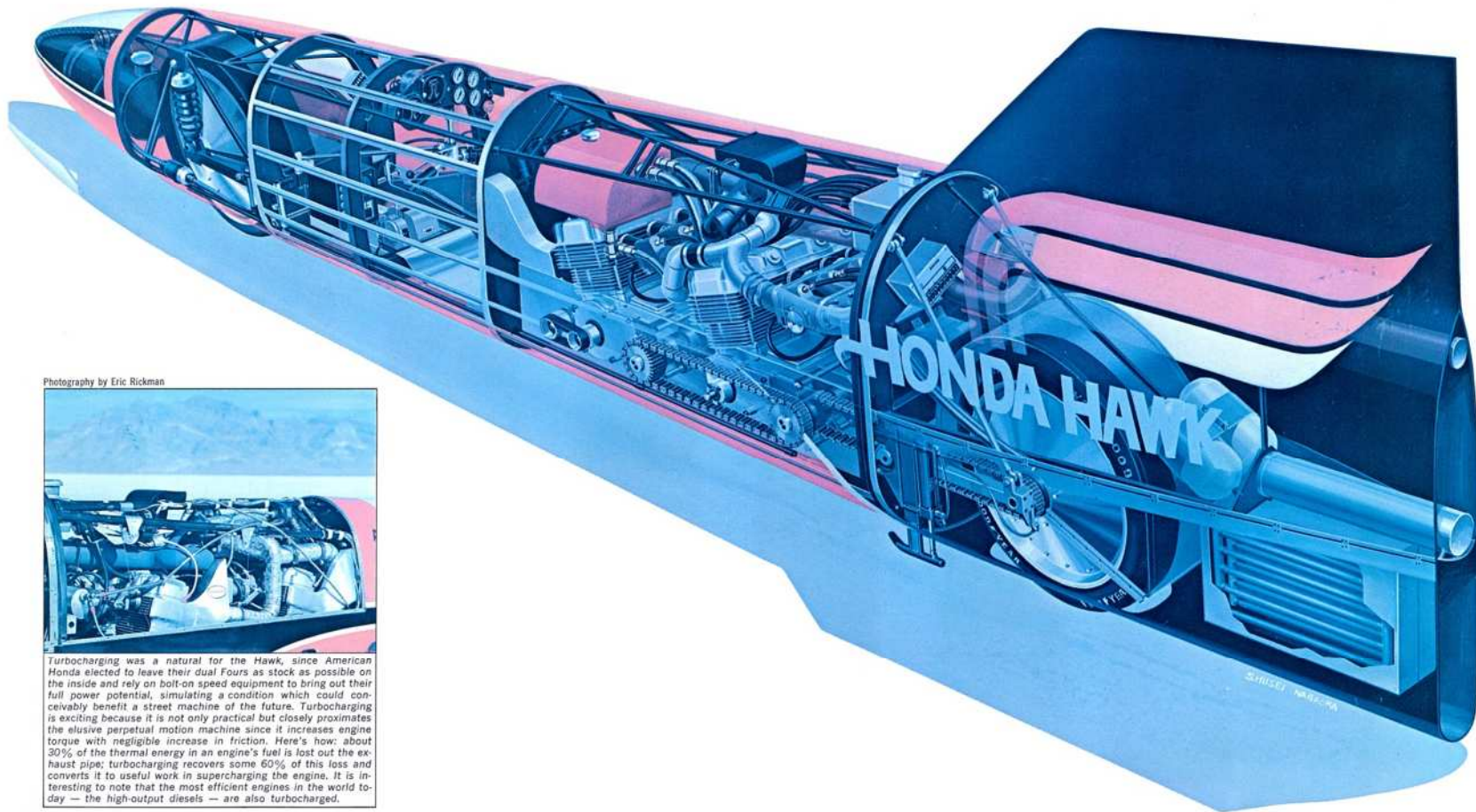


# The anatomy of a Hawk

Illustration by Shusei Nagaoka of Design Maru

REPRINTED FROM MOTORCYCLIST MAGAZINE FEBRUARY 1972



Photography by Eric Rickman



Turbocharging was a natural for the Hawk, since American Honda elected to leave their dual Fours as stock as possible on the inside and rely on bolt-on speed equipment to bring out their full power potential, simulating a condition which could conceivably benefit a street machine of the future. Turbocharging is exciting because it is not only practical but closely approximates the elusive perpetual motion machine since it increases engine torque with negligible increase in friction. Here's how: about 30% of the thermal energy in an engine's fuel is lost out the exhaust pipe; turbocharging recovers some 60% of this loss and converts it to useful work in supercharging the engine. It is interesting to note that the most efficient engines in the world today — the high-output diesels — are also turbocharged.